



LIFE10 NAT/IT/000239 “RARITY”



Eradicate Invasive Louisiana Red Swamp and Preserve Native white Clawed Crayfish in Friuli Venezia Giulia

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www.life-rarity.eu

Louisiana red swamp crayfish

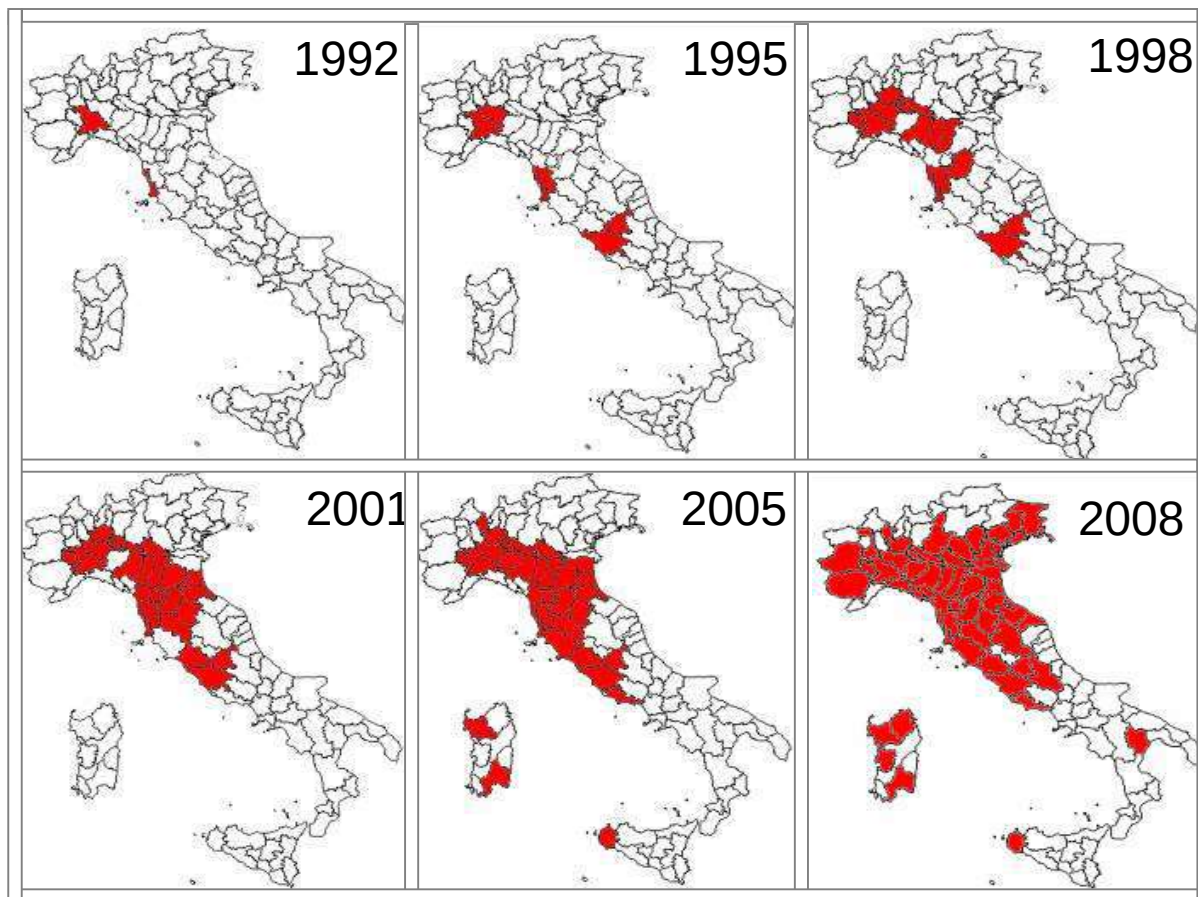
Procambarus clarkii



White clawed crayfish

Austropotamobius pallipes complex





Staranzano (GO)

27/09/07



Consistent damages to river banks

18/06/2014, Staranzano, Bonifica Sacchetti



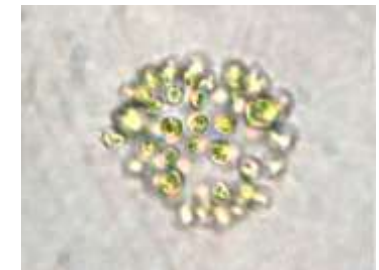
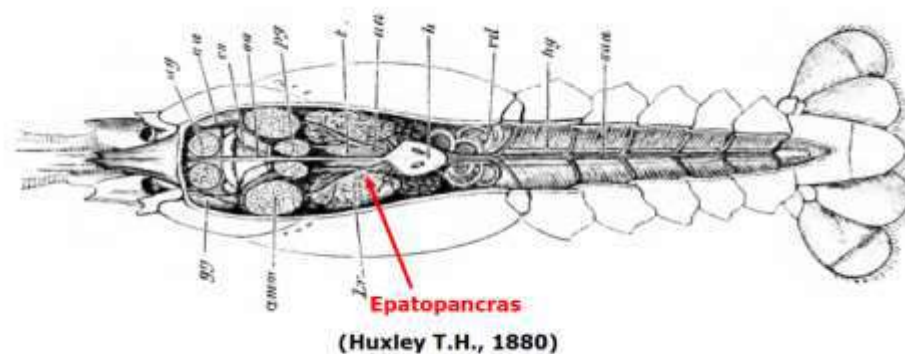
Crayfish plague

Aphanomyces astacii mycelium

2011, roggia Cusana (Flambro, UD)



Possible toxicity to humans due to the accumulation of heavy metals and microcystins



“RARITY”

- **Total value:** 2.674.744,00 €
- **EU co-financing rate:** 49,22% (1.250.545,00 €)
- **Duration:** 2011 – 2014
- **Localization:** Friuli Venezia Giulia



ETP coordinating beneficiary (lead partner)



CNR-ISMAR National research council -Institute of marine Sciences, Venice



UNITS Life Sciences Department, University of Trieste



UNIFI Biology Department, University of Florence



IZSVe Istituto Zooprofilattico Sperimentale delle Venezie (National reference laboratory for fish, crustacean and mollusc diseases)



Rarity project

→ Aims and objectives

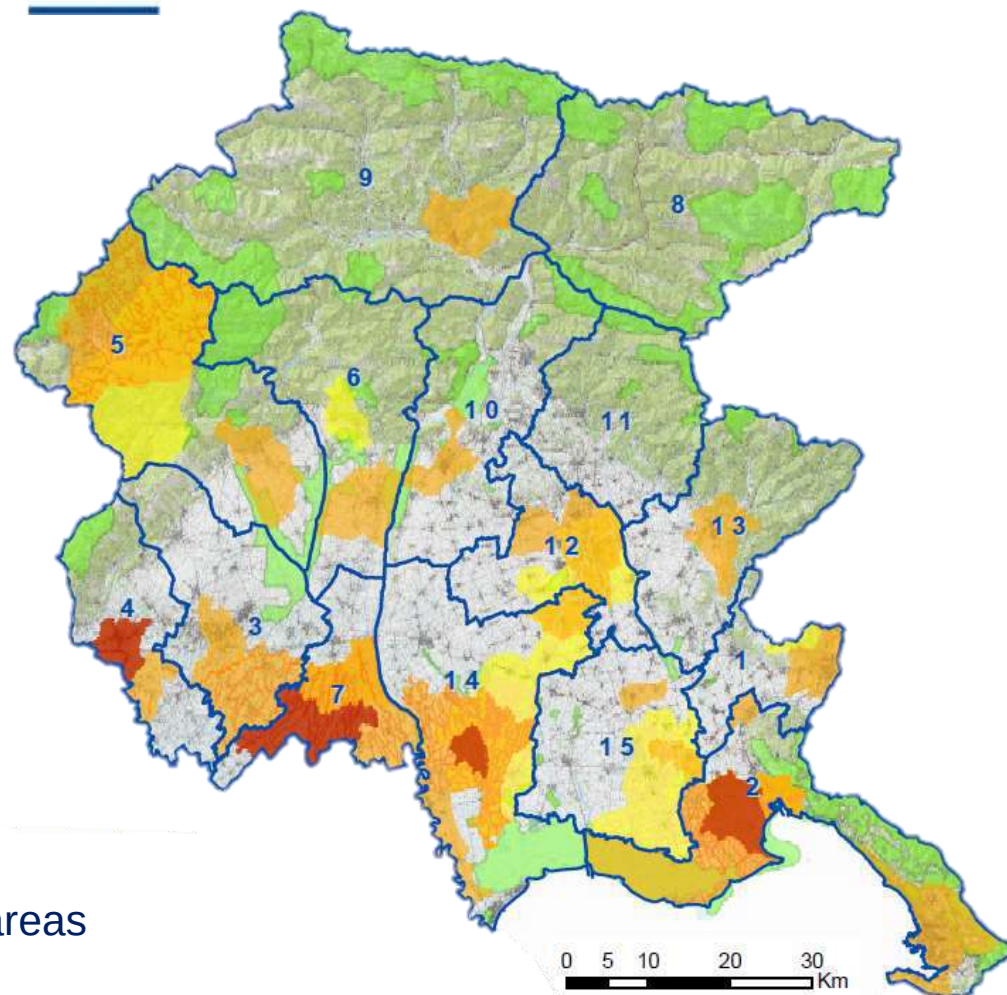
1. **Knowledge improvement**
2. Contrasting the spread of *P. clarkii*
3. Enhancing the white clawed crayfish populations
4. Dissemination

Risk maps

Surveys and interviews

P. clarkii diffusion risks:

- high
- middle
- low
- colleges fishing in FVG
- Natura 2000 protected areas



Monitoring

238 stations

- Environmental
- Populations
- Health conditions
- Genetic

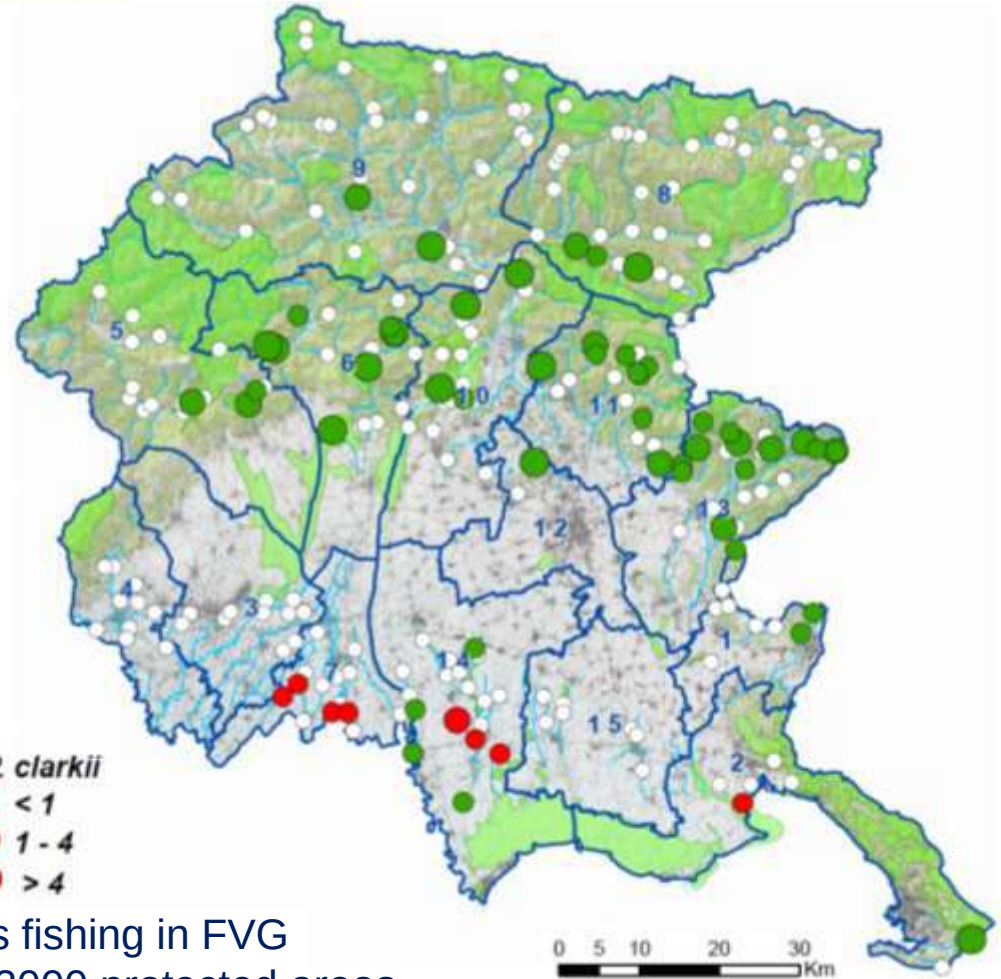


A. pallipes *P. clarkii*

● < 1	● < 1
● 1 - 3	● 1 - 4
● > 10	● > 4

□ colleges fishing in FVG

■ Natura 2000 protected areas



Operators training and networking





Rarity project

Il progetto Rarity

→ Aims and objectives

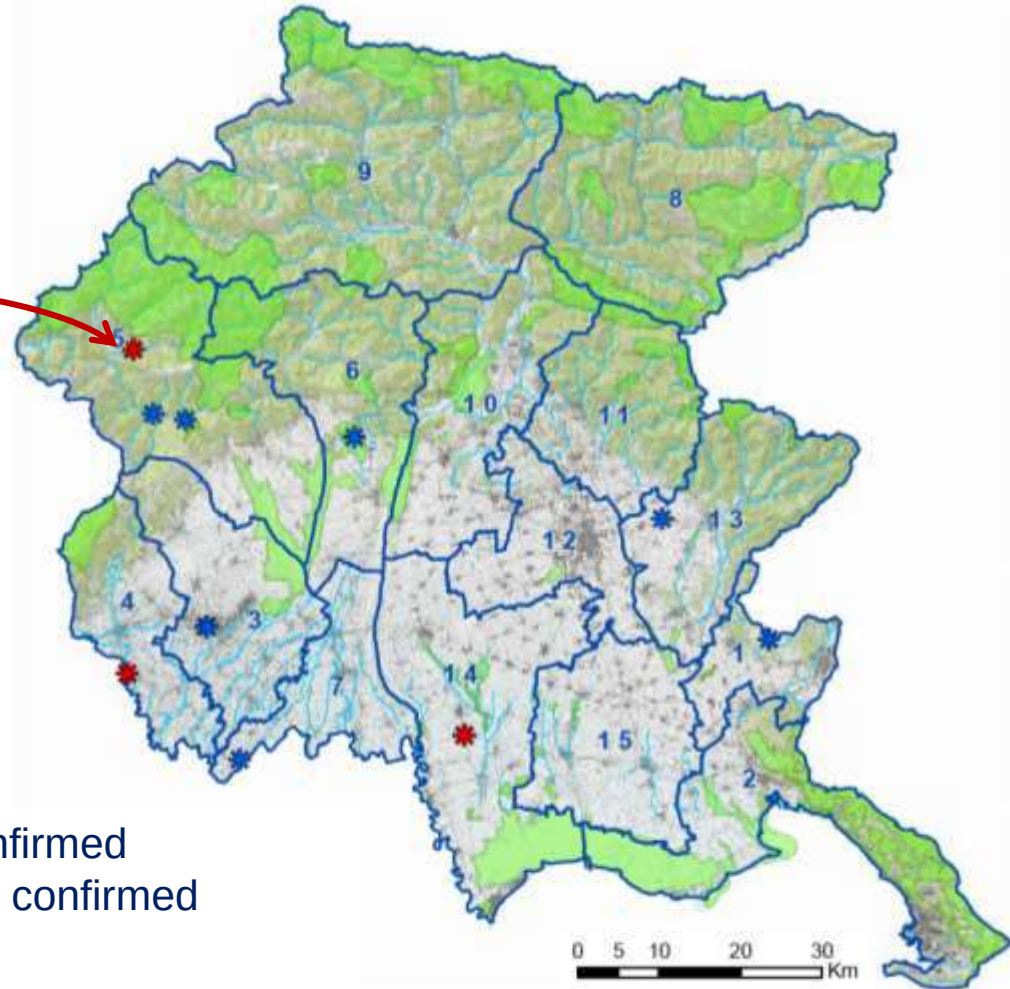
1. Knowledge improvement
- 2. Contrasting the spread
of *P. clarkii***
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Massive captures

More than 20.000 specimens of
P. clarkii removed



Early detection rapid response protocols



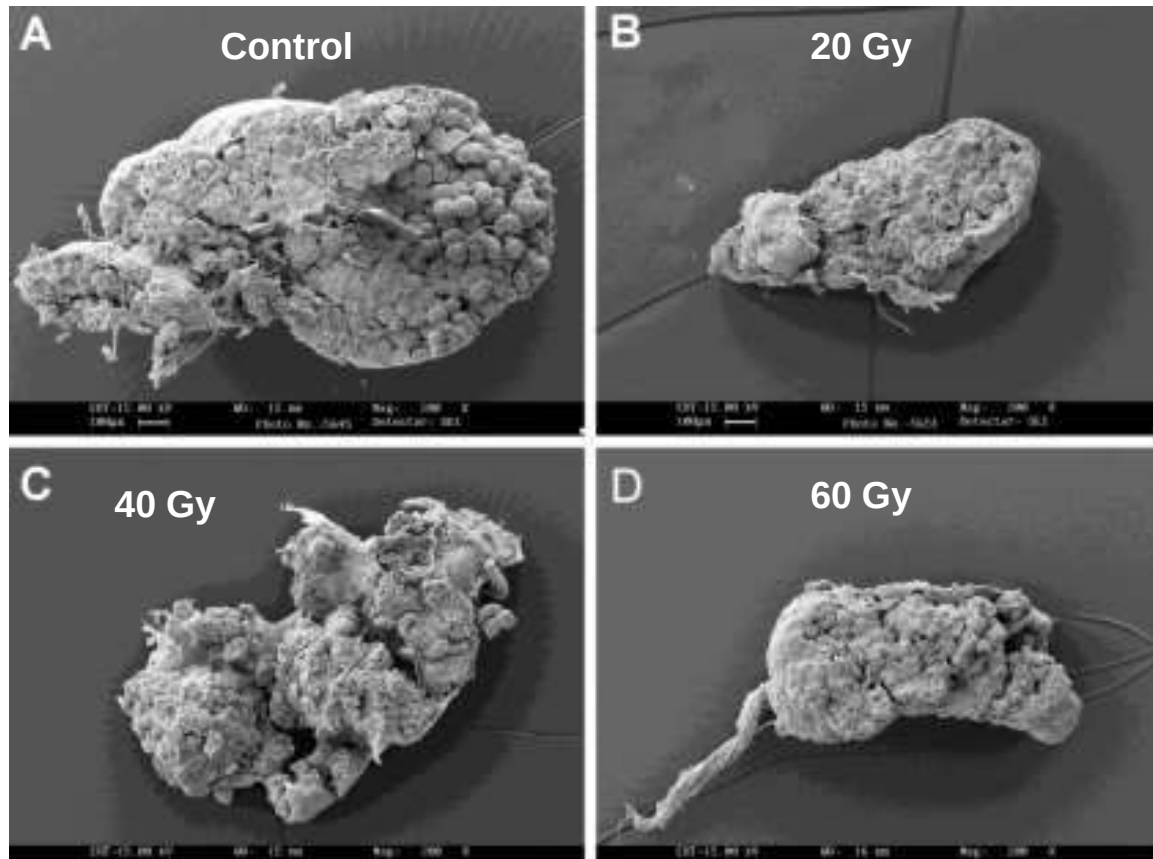
- ★ *P. clarkii* presence confirmed
- ★ *P. clarkii* presence not confirmed

Test on techniques to contrast *P. clarkii*

- Sterilized Male Release Technique
- Hormonal bait (contraceptive function)
- Pheromonal baits
(recalling function)

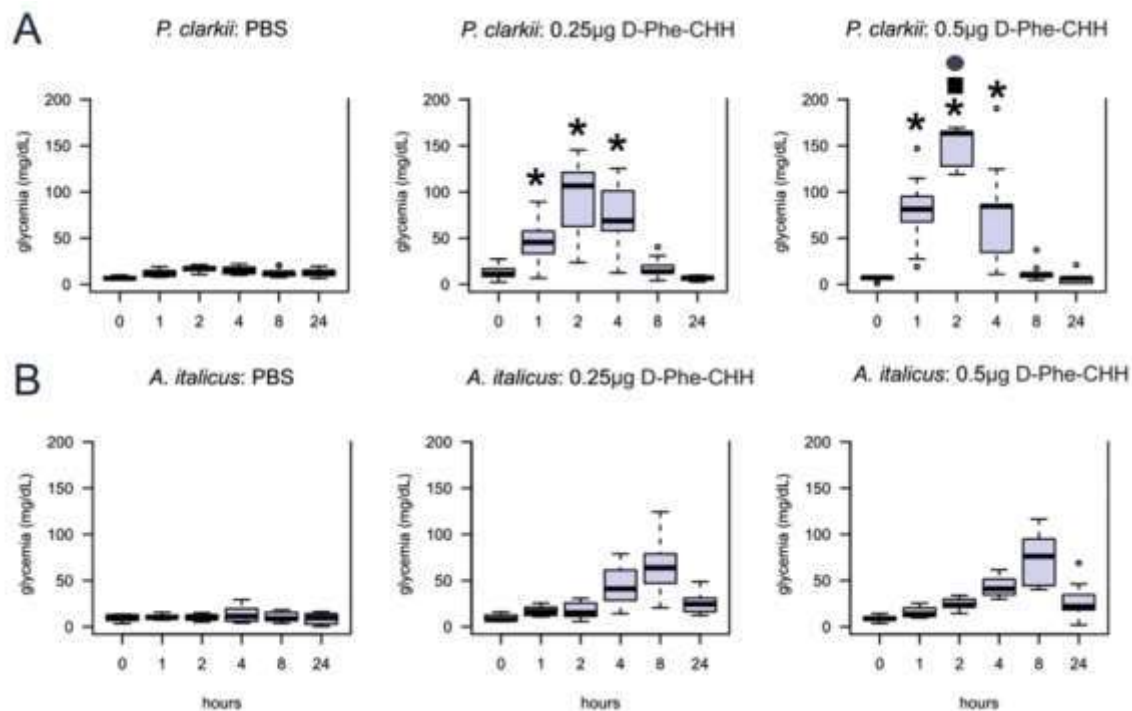
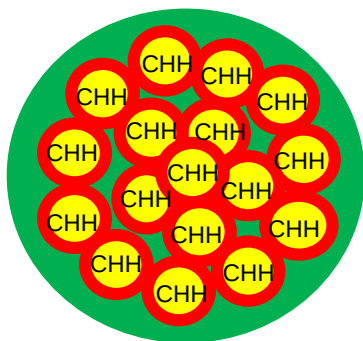


Sterilized Male Release Technique (SMRT)

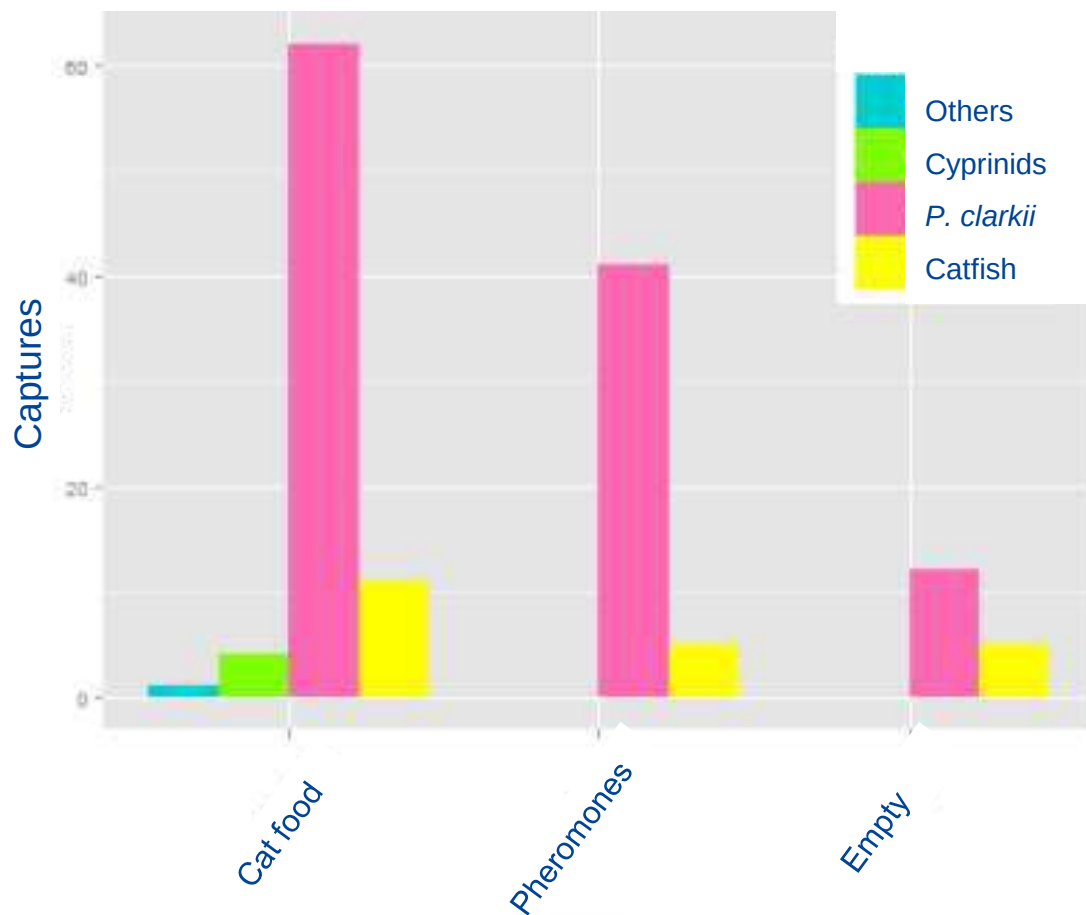


87% reduction in
2 years in a pond
(Casette, Sesto al
Regghena)

Hormonal bait (contraceptive function)



Pheromonal baits (recalling function)



Citizen Science

➔ **gamberialieni.it**

- Collaboration with Siit project (ITA-SLO) (www.siit.eu)



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invia segnalazioni...

e contribuisci al controllo del Gambero rosso della Louisiana in Italia.

Il Gambero rosso della Louisiana

Accedi alla schede di approfondimento e impara a riconoscerlo.

Invia una segnalazione

Un semplice strumento per l'invio di note e immagini.

Guarda le segnalazioni

Scopri le segnalazioni fatte da altri utenti!

Appropriate legislation

- ➔ Reconnaissance existing legislation
- ➔ Art. 6-bis regional law 19/1971
 - Competence of ETP
 - Action plan
 - Capture prohibition
 - Fines
- ➔ Conservation rules of Natura 2000 sites
- ➔ Management plans of Natura 2000 sites
- ➔ Sport fishing rules



Agreements and communication

→ Managers of festivals

- No alive alien crayfish
- Informations stands

→ Aquarium shops

- brochures
- posters

→ Protezione civile

- training
- collaboration





Rarity project

Il progetto Rarity

→ Aims and objectives

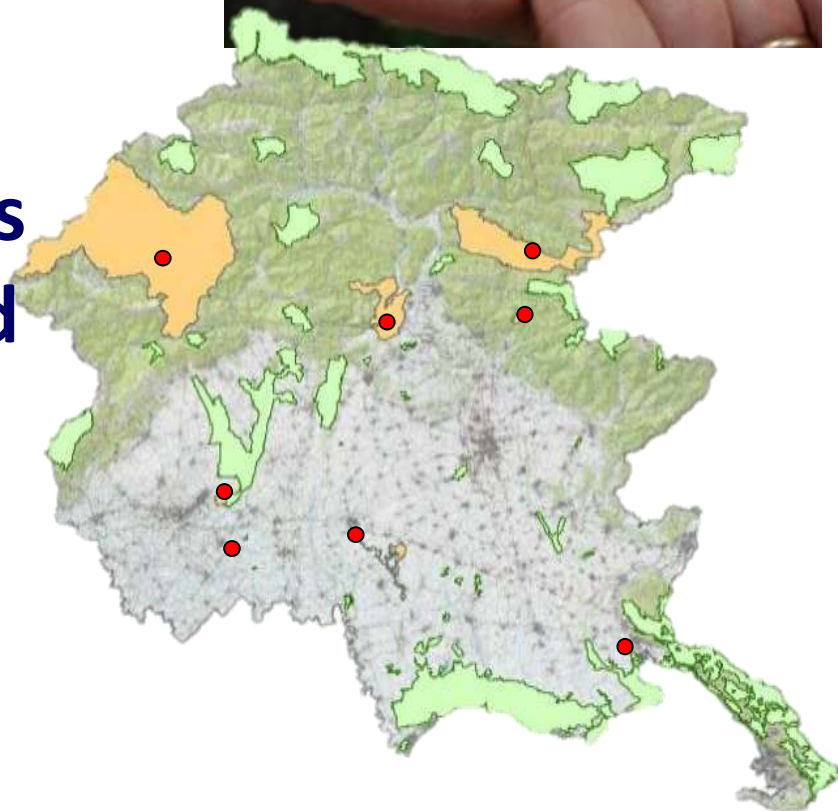
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4. Dissemination



Breeding



**42.000
juveniles
released**





Rarity project

Il progetto Rarity

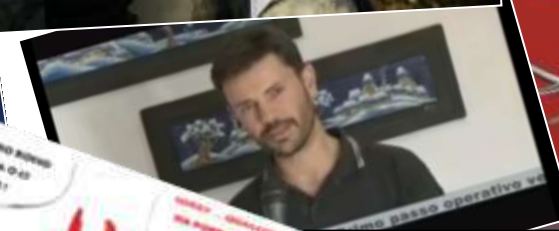
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14/03/2014
Pesca e Ambiente
Monitoraggio dell'inquinamento delle acque regionali



BIO
DIVERSITA





Thank you for your attention

www.life-rarity.eu

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